**CYT230-Mobile Application Security Assessment**

**Lab 2: Burp Suite**

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**Objective**

In this lab experiment the students will learn to use Burp Suite in mobile application environment to intercept the traffic by using man-in-the-middle attack and to detect SSL certificate validation errors.

**Requirements**

Android Emulator (any emulator of your choice Android X-86 or Genymotion), Linux VM (Kali or any Linux OS of your choice)

**Report requirements**

Follow the submission formatting guidelines and make sure to include significant screenshots, captions, and detailed explanation. The 2 screenshots in sections 7 and 16 (step 7 and step 16) are mandatory and shall indicate student’s name and proof of completion.

WARNING: DO NOT PAY FOR ANYTHING. DO NOT ENTER YOUR CREDIT CARD INFO ANYWHERE. ALL REUQIREMENTS ARE EITHER FREE OR TRIAL VERISON IS AVAILABLE. EVEN FOR TRIAL VERSION DO NOT ENTER CREDIT CARD INFO. THIS WARNING APPLIES TO ALL LABS, PROJECTS, AND ASSIGNMENTS.

**Instruction**

* Step 1: Install and run Burp Suit on Linux
* Step 2: Configure a proxy listener on the burp Suite
* Step 3: Adjusting Android Networking to Use the Burp Proxy
* Step 4: In the Android emulator browse a test http page (e.g., <http://testfire.net/>) and verify that that the http traffic is intercepted in the Burp Suite successfully.
* Step 5: In the Android emulator browse a secure https page (e.g., https://senecapolytechnic.ca/) and indicate that the Android emulator’s browser generates an alert or warning.
* Step 6: Export the Burp Suite proxy’s digital certificate and install it in the Android emulator.
* Step 7: In the Android emulator browse a secure https page (e.g., https://senecapolytechnic.ca/) and this time indicate that the Android emulator’s browser does NOT generate any alerts or warnings.
* Step 8: Demonstrate and analyse the intercepted https traffic on the Burp Suite proxy.